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RAW SEQUENCE LISTING PATENT APPLICATION US/08/727,084

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This Raw Listing contains the General Information Section and up to the first 5 pages.

SS.

ENTERED SEQUENCE LISTING 1 2 3 (1) General Information: 4 5 (i) APPLICANT: Pulst, Stefan M. 6 7 (ii) TITLE OF INVENTION: NUCLEIC ACID ENCODING SPINOCEREBELLAR 8 ATAXIA-2 AND PRODUCTS RELATED THERETO 9 (iii) NUMBER OF SEQUENCES: 5 10 11 12 (iv) CORRESPONDENCE ADDRESS: (A) ADDRESSEE: Pretty, Schroeder & Poplawski 13 14 (B) STREET: 444 South Flower Street, Suite 2000 (C) CITY: 15 Los Angeles CA 16 (D) STATE: USA 17 (E) COUNTRY: 18 (F) ZIP: 90071 19 (V) COMPUTER READABLE FORM: 20 21 (A) MEDIUM TYPE: 3.5" diskette 22 (B) COMPUTER: IBM PC compatible (C) OPERATING SYSTEM: 23 PC-DOS/MS-DOS PatentIn Release #1.0, Version #1.25 24 (D) SOFTWARE: 25 (vi) CURRENT APPLICATION DATA: 26 08/727,084 27 (A) APPLICATION NUMBER: 28 (B) FILING DATE: October 8, 1996 29 (C) CLASSIFICATION: 30 (viii) ATTORNEY/AGENT INFORMATION: 31 32 (A) NAME: Viviana Amzel, Ph. D. (B) REGISTRATION NUMBER: 33 30930 (C) REFERENCE/DOCKET NUMBER: P07 37217 34 35 (ix) TELECOMMUNICATION INFORMATION: 36 37 (A) TELEPHONE: 213-622-7700 38 (B) TELEFAX: 213-489-4210 39 40 41 (2) INFORMATION FOR SEQ ID NO:1: 42 43 (i) SEQUENCE CHARACTERISTICS: 44 (A) LENGTH: 516 base pairs 45 (B) TYPE: nucleic acid 46 (C) STRANDEDNESS: both

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47	(D) TOPOLOGY: both	*
48	(-,	
49	(ii) MOLECULE TYPE: DNA (genomic)	
50		
51	•	
52		
53	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:	
54		
55	TTGGTAGCAA CGGAAACGGC GGCGGCGCGT TTCGGCCCGG CTCCCGGCGG CTCCTTGGTC	60
56		
57	TCGGCGGGCC TCCCCGCCCC TTCGTCGTCG TCCTTCTCCC CCTCGCCAGC CCGGGCGCCC	120
58		
59	CTCCGGCCGC GCCAACCCGC GCCTCCCCGC TCGGCGCCCG TGCGTCCCCG CCGCGTTCCG	180
60		
61	GCGTCTCCTT GGCGCGCCC GCTCCCGGCT GTCCCCGCCC GGCGTGCGAG CCGGTGTATG	240
62		
63	GGCCCCTCAC CATGTCGCTG AAGCCCCAGC AGCAGCAGCA GCAGCAGCAG CAACAGCAGC	300
64		
65	AGCAGCAACA GCAGCAGCAG CAGCAGCAGC AGCCGCCGCC CGCGGCTGCC AATGTCCGCA	360
66		400
67	AGCCCGGCGG CAGCGGCCTT CTAGCGTCGC CCGCCGCCGC GCCTTCGCCG TCCTCGTCCT	420
68 69	CGGTCTCCTC GTCCTCGGCC ACGGCTCCCT CCTCGGTGGT CGCGGCGACC TCCGGCGGCG	480
70	Control of Colour Acoustical Colours and Colour Colours	400
71	GGAGGCCCGG CCTGGGCAGG TGGGTGTCGG CACCCC	516
72	danddeeddd ee addeedd a adda a accee	310
73	(2) INFORMATION FOR SEO ID NO:2:	·
74	(1) Intermitted told buy 15 hours	
75	(i) SEQUENCE CHARACTERISTICS:	
76	(A) LENGTH: 4481 base pairs	
77	(B) TYPE: nucleic acid	
78	(C) STRANDEDNESS: both	
79	(D) TOPOLOGY: both	
80		
81	(ii) MOLECULE TYPE: cDNA	
82		
83		
84	(ix) FEATURE:	
85	(A) NAME/KEY: CDS	
86	(B) LOCATION: 1634101	
87		
88		
89	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:	
90	``````````````````````````````````````	
	ACCCCCGAGA AAGCAACCCA GCGCGCCGCC CGCTCCTCAC GTGTCCCTCC CGGCCCCGGG	60
92	COCKROMORA CHIMOMORAMA COMOMORACA CHICAGRAMMA COCAMIRRA MAGAMINACA	. 100
93	GCCACCTCAC GTTCTGCTTC CGTCTGACCC CTCCGACTTC CGGTAAAGAG TCCCTATCCG	120
94 95	Charmonada anahaganan anamananan anaganama an han ana mah asa	174
95 96	CACCTCCGCT CCCACCCGGC GCCTCGGCGC GCCCGCCCTC CG ATG CGC TCA GCG Met Arg Ser Ala	174
97	net arg ser ara	
98	1	
.99	GCC GCA GCT CCT CGG AGT CCC GCG GTG GCC ACC GAG TCT CGC CGC TTC	222
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														IN	PUT	SET:	S16960.raw
100	Ala	Ala	Ala	Pro	Arg	Ser	Pro	Ala	Val	Ala	Thr	Glu	Ser				
101	5				3	10					15					20	
102																	
103	GCC	GCA	acc	λGG	TCC	ccc	aaa	TGG	CGC	ጥሮር	СТС	CAG	cgg	CCG	aca	CGG	270
103						Pro											270
105	AIG	AIG	ATG	ALG		PIO	GLY	пр	Arg	30	Бец	GIII	ALG	110	35	AL 9	
					25					30					33		
106	~~~										~~~			m.	~~~	maa	210
107						GGC											318
108	Arg	Ser	GTÀ	_	СТĀ	Gly	GТĀ	GTÀ		Ala	Pro	GTÀ	Pro	_	Pro	Ser	
109				40					45					50			
110																	
111			_			CCC											366
112	Ala	Ala	Pro	Pro	Pro	Pro	Gly	Pro	Gly	Pro	Pro	Pro	Ser	Arg	Gln	Ser	
113			55					60					65				
114																	
115	TCG	CCT	CCC	TCC	GCC	TCA	GAC	TGT	TTT	GGT	AGC	AAC	GGC	AAC	GGC	GGC	414
116	Ser	Pro	Pro	Ser	Ala	Ser	Asp	Cys	Phe	Gly	Ser	Asn	Gly	Asn	Gly	Gly	
117		70					75	-		-		80	_		_	_	
118																	
119	GGC	GCG	TTT	CGG	CCC	GGC	TCC	CGG	CGG	CTC	CTT	GGT	CTC	GGC	GGG	CCT	462
120						Gly											
121	85					90					95			-	-	100	
122						- •											
123	CCC	CGC	CCC	ттс	GTC	GTC	GTC	СТТ	CTC	CCC	CTC	GCC	AGC	CCG	GGC	GCC	510
124						Val											
125	0	9			105	****				110					115		
126					100					110					113		
127	CCT	CCG	acc	aca	CCA	ACC	CGC	GCC	TCC	CCG	CTC	GGC	GCC	ССТ	GCG	ጥሮሮ	558
128						Thr											330
129	FIO	FIO	AIG	120	FIO	1111	Arg	ATG	125	FIO	Бец	GLY	AIG	130	ALU	DCI	
130				120					123					130			
131	000	aaa	аат	maa	000	GTC	таа	mma	aaa	aaa	aaa	COM	aaa	acc	mam.	aaa	606
131						Val											000
	FIU	PIO	_	Ser	СТУ	Val	Ser		ATG	ALG	PIO	АТа	145	GLY	Cys	FIO	
133			135					140					145				•
134	000	000	aaa	шаа	a.a	000	ama	mam	000	000	ama	3.00	з ша	maa	ama	220	654
135						CCG											034
136	Arg		АТА	cys	GIU	Pro		TYL	СТА	PIO	Leu		Met	Ser	ьeu	гаг	
137		150					155					160					
138											~~~		~~~	~~~	~~ .	a. a	700
139						CAG											702
140		GTn	GIn	GIn	GTn	Gln	GIn	GIn	GIn	GIn		GIn	GIn	GIn	GIn		
141	165					170					175					180	
142																	
143						CAG											750
144	Gln	Gln	Gln	Gln		Gln	Gln	Pro	Pro		Ala	Ala	Ala	Asn		Arg	
145					185					190					195		
146						5	•	•									
147						GGC											798
148	Lys	Pro	Gly	Gly	Ser	Gl a	Leu	Leu	Ala	Ser	Pro	Ala	Ala	Ala	Pro	Ser	
149			•	200		;			205					210			
150																	
151	CCG	TCC	TCG	TCC	TCG	GTC	TCC	TCG	TCC	TCG	GCC	ACG	GCT	CCC	TCC	TCG	846
152	Pro	Ser	Ser	Ser	Ser	Val	Ser	Ser	Ser	Ser	Ala	Thr	Ala	Pro	Ser	Ser	

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														•			
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153			215					220					225				
154																	
155						TCC											894
156	Val	Val	Ala	Ala	Thr	Ser	Gly	Gly	Gly	Arg	Pro	Gly	Leu	Gly	Arg	Gly	
157		230					235					240					
158																	
159	CGA	AAC	AGT	AAC	AAA	GGA	CTG	CCT	CAG	TCT	ACG	ATT	TCT	TTT	GAT	GGA	942
160	Arg	Asn	Ser	Asn	Lys	Gly	Leu	Pro	Gln	Ser	Thr	Ile	Ser	Phe	Asp	Gly	
161	245					250					255					260	
162																	
163	ATC	TAT	GCA	AAT	ATG	AGG	ATG	GTT	CAT	ATA	CTT	ACA	TCA	GTT	GTT	GGC	990
164	Ile	Tyr	Ala	Asn	Met	Arg	Met	Val	His	Ile	Leu	Thr	Ser	Val	Val	Gly	
165		-			265	_				270					275	_	
166																	
167	TCC	AAA	TGT	GAA	GTA	CAA	GTG	AAA	AAT	GGA	GGT	ATA	TAT	GAA	GGA	GTT	1038
168	Ser	Lvs	Cys	Glu	Val	Gln	Val	Lvs	Asn	Glv	Glv	Ile	Tvr	Glu	Gly	Val	
169			- 2	280				2	285	2	3		-2-	290	-;-2		•
170																	
171	TTT	AAA	ACT	TAC	AGT	CCG	AAG	TGT	GAT	TTG	GTA	СТТ	GAT	GCC	GCA	CAT	1086
172						Pro											
173		-1-	295	-1-			-7-	300	<u>-</u> -				305				
174					*												
175	GAG	ΑΑΑ	AGT	ACA	GAA	TCC	AGT	TCG	GGG	CCG	ΔΑΑ	CGT	GAA	GAA	ΔΤΔ	ATG	1134
176						Ser											
177		310				201	315		U		_,_	320					
178							010					020					
179	GAG	ΔСΤ	Δηη	ттс	ጥጥር	AAA	тст	TCA	GAC	արար	CTTT	GTG	СΨΔ	CAG	արդար	ΔΔΔ	1182
180						Lys											1102
181	325	501		204		330	,0,5		11.5Р		335			·		340	
182	323					550					555					340	
183	САТ	ΔТС	GAC	TCC	λСП	TAT	GCA	ΔΔΔ	ΔGA	СУП	ССТ	ффф	ΔСΤ	GAC	ጥርጥ	сст	1230
184						Tyr											1230
185	nop	1100	пор	201	345	- 1 -	ALU	2,5	n- 9	350	ALG	1110		ASP	355	AIG	
186					545					330					555		
187	ልሞሮ	λαπ	GCT	ΔΔΔ	стс	AAT	aac	CAA	CAC	λλλ	GAG	AAG	GAC	CTC	GAG	CCC	1278
188						Asn											. 1270
189	110	Der	ALG	360	Val	ASII	GLY	GIU	365	цуз	GLU	nys	vob	370	GIU	FIO	
190				500					505					370			
191	таа	αλπ	CCA	CCT	GAA	CTC	አሮአ	acc	አልጥ	GAG	CAA	Стт	GAG	COT	ጥጥር	GA A	1326
192						Leu											1320
193	пр	ASP	375	GLY	GIU	Leu	1111	380	MSII	GIU	GIU	Беа	385	АТа	Leu	GIU	
194			3/3					300					303				
195	חמג	CAC	ста	mam	חגג	CCA	maa	CATT	caa	a a m	алш	λШС	mmm	CCA	mam	3 A M	1374
196						GGA											13/4
197	ASII		vaı	ser	ASII	Gly		ASP	PIO	ASII	Asp		Pne	Arg	TYL	ASII	
		390					395					400					
198 199	CAA	CAR	מגג	-m v m	COM	CI III X	OMG	mam.	NO.C	mam	O A ITT	N CC	N CITT	mm x	mar	Maa	1400
						GTA											1422
200		GTU	ASN	Tyr	GTÄ	Val	val	ser	THE	Tyr	_	ser	ser	ren	ser		
201	405	•				410					415					420	
202	m 2 cc	101	ar.	000	me s	a	. ~ .	~~		m~ •	a	a	mee	mes		~~~	3.450
203						GAA											1470
204	тyr	ınr	vaı	PTO		Glu	arg	Asp	ASN		GIU	GIU	rne	Leu	-	arg	
205		•			425					430					435		

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														A1	11 01	3131. 31070C). I W IV
206	CD 3		3.00	003		a.a	mm s	003	C 3 3	CIA A	a mm	G 3 G		» am	000	CAC	1510
.207 208						CAG Gln											1518
208	GIG	нта	Arg	440	ASII	GIU	Leu	нта	445	GIU	TTE	GIU	Ser	450	MIG	GIII	
210				440					447					430			
211	TAC!	* * *	CCT	CCX	OTT C	GCC	СТС	CAA	አአጥ	CAT	CAT	NCC.	х стр	ana	CAA	GAA	1566
212						Ala											1300
212	ıyı	пур	455	ALG	vaı	MIG	пеп	460	ASII	кор	АБР	Arg	465	GIU	GIG	GIU	
214			433					700					403				
215	***	ሞልሮ	ልሮል	CCA	COUT	CAG	λGλ	አልጥ	שככ	λСΤ	CAA	ССТ	GAG	aaa	CAC	AGC	1614
216						Gln											1014
217	2,0	470					475					480		-			
218																	
219	АТА	AAC	ACT	AGG	GAA	AAT	AAA	TAT	ATT	CCT	CCT	GGA	CAA	AGA	AAT	AGA	1662
220						Asn											
221	485			3		490		4			495					500	
222																	
223	GAA	GTC	ATA	TCC	TGG	GGA	AGT	GGG	AGA	CAG	AAT	TCA	CCG	CGT	ATG	GGC	1710
224	Glu	Val	Ile	Ser	Trp	Gly	Ser	Gly	Arg	Gln	Asn	Ser	Pro	Arg	Met	Gly	
225					505	_		_	_	510				_	515	_	
226																	
227	CAG	CCT	GGA	TCG	GGC	TCC	ATG	CCA	TCA	AGA	TCC	ACT	TCT	CAC	ACT.	TCA	1758
228	Gln	Pro	Gly	Ser	Gly	Ser	Met	Pro	Ser	Arg	Ser	Thr	Ser	His	Thr	Ser	
229				520					525					530			
230																	
231						TCT											1806
232	Asp	Phe		Pro	Asn	Ser	Gly		Asp	Gln	Arg	Val		Asn	Gly	Gly	
233			535					540					545				
234																	
235						CCT											1854
236	Val		Trp	Pro	Ser	Pro	_	Pro	Ser	Pro	ser		Arg	Pro	Pro	Ser	
237		550					555					560					
238 239	aaa	ma.a	aza	шах	O O III	000	220	mam	C/IIII	aa x	aam.	aaa	aa x	aaa	MOO	CCT	1902
240						CCC Pro											1902
241	565	ıyı	GIII	Ser	_	570	ASII	Der	Leu	FIO	575	Arg	Ala	AIG	1111	580	
242	303					370					373					300	
243	ACA	CGG	CCG	ccc	TCC	AGG	CCC	CCC	TCG	CGG	CCA	TCC	AGA	ccc	CCG	тст	1950
244						Arg											
245		3			585					590					595		
246																	
247	CAC	CCC	TCT	GCT	CAT	GGT	TCT	CCA	GCT	CCT	GTC	TCT	ACT	ATG	CCT	AAA	1998
248	His	Pro	Ser	Ala	His	Gly	Ser	Pro	Ala	Pro	Val	Ser	Thr	Met	Pro	Lys	
249				600					605					610			
250																	•
251						GGG											2046
252	Arg	Met		Ser	Glu	Gly	Pro		Arg	Met	Ser	Pro	Lys	Ala	Gln	Arg	
253			615					620					625				
254	4																
255						AGA											2094
256	His		Arg	Asn	His	Arg		Ser	Ala	СŢУ	Arg	_	Ser	ITe	Ser	ser	
257		630					635					640					
258			•														

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